```
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP       SSSSSSSSSSSS  YYY              YYY
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPPP       SSSSSSSSSSSS  YYY              YYY
UUU          UUU  EEEEEEEEEEEEEEE  TTTTTTTTTTTTTTT  PPPPPPPPPPP        SSSSSSSSSSSS  YYY              YYY
UUU          UUU  EEE                      TTT      PPP         PPP    SSS           YYY              YYY
UUU          UUU  EEE                      TTT      PPP         PPP    SSS           YYY              YYY
UUU          UUU  EEE                      TTT      PPP         PPP    SSS           YYY              YYY
UUU          UUU  EEE                      TTT      PPP         PPP    SSS               YYY      YYY
UUU          UUU  EEE                      TTT      PPP         PPP    SSS               YYY      YYY
UUU          UUU  EEEEEEEEEEE              TTT      PPPPPPPPPPP        SSSSSSSSS             YYY
UUU          UUU  EEEEEEEEEEE              TTT      PPPPPPPPPPP        SSSSSSSSS             YYY
UUU          UUU  EEEEEEEEEEE              TTT      PPPPPPPPPPP        SSSSSSSSS             YYY
UUU          UUU  EEE                      TTT      PPP                      SSS            YYY
UUU          UUU  EEE                      TTT      PPP                      SSS            YYY
UUU          UUU  EEE                      TTT      PPP                      SSS            YYY
UUU          UUU  EEE                      TTT      PPP                      SSS            YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE          TTT      PPP           SSSSSSSSSSSS            YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE          TTT      PPP           SSSSSSSSSSSS            YYY
UUUUUUUUUUUUUUUU  EEEEEEEEEEEEEEE          TTT      PPP           SSSSSSSSSSSS            YYY
```

FILEID**SATSSS08

SATSSS08

LIS

SATSSS08
V04-000

F 14
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 1
                                              5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
0000      1              .TITLE  SATSSS08 SATS SYSTEM SERVICE TESTS  $BRDCST (SUCC S.C.)
0000      2              .IDENT  'V04-000'
0000      3
0000      4      ;
0000      5      ;*******************************************************************************
0000      6      ;*                                                                             *
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0000     24      ;*                                                                             *
0000     25      ;*                                                                             *
0000     26      ;*******************************************************************************
0000     27
0000     28
0000     29      ;++
0000     30      ; FACILITY:      SYSTST (SATS SYSTEM SERVICE TESTS)
0000     31      ;
0000     32      ; ABSTRACT:
0000     33      ;
0000     34      ;              THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED
0000     35      ; WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS08 TO TEST SUCCESSFUL
0000     36      ; OPERATION OF THE $BRDCST SYSTEM SERVICE. THE SERVICE IS INVOKED
0000     37      ; UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY
0000     38      ; SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE.  CORRECT
0000     39      ; OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY
0000     40      ; CHECKING FOR AN SS$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS
0000     41      ; AND EXPECTED FUNCTIONALITY PERFORMED.
0000     42      ;
0000     43      ; ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,
0000     44      ;              DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.
0000     45      ;
0000     46      ; AUTHOR: THOMAS L. CAFARELLA,           CREATION DATE: MMM, 1978
0000     47      ;
0000     48      ; MODIFIED BY:
0000     49      ;
0000     50      ;       . : VERSION
0000     51      ; 01     :
0000     52      ;--
```

SATSSS08
V04-000

G 14
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 2
DECLARATIONS   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
0000    54            .SBTTL  DECLARATIONS
0000    55  ;
0000    56  ; INCLUDE FILES:
0000    57  ;
0000    58          $PRVDEF                          ; PRIVILEGE BIT DEFINITIONS
0000    59          $PHDDEF                          ; PROCESS HEADER OFFSETS
0000    60          $LOGDEF                          ; LOGICAL NAME TABLE DEFS
0000    61          $SHR_MESSAGES UETP,116,<<TEXT,INFO>> ; DEFINE UETP$_TEXT MSG
0000    62  ;
0000    63  ; MACROS:
0000    64  ;
0000    65  ;
0000    66  ; EQUATED SYMBOLS:
0000    67  ;
0000    68  ;
0000    69  ; OWN STORAGE:
0000    70  ;
```

```
                          00000000    72          .PSECT  RODATA,RD,NOWRT,NOEXE,LONG
                              0000    73 TEST_MOD_NAME:: STRING C,<SATSSS08>      ; TEST MODULE NAME
                              0009    74 TEST_MOD_NAME_D: STRING I,<SATSSS08>     ; TEST MODULE NAME DESCRIPTOR
                              0019    75 MSG1_INP_CTL:  STRING I,<  SSBRD!4ZW: CONDITIONS:>
                              0039    76                                         ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                              0039    77 MSG3_ERR_CTL::  STRING I,< *SSBRD!4ZW: !AS>
                              0051    78                                         ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
                              0051    79 INTRO_MSG:     STRING I,<THE FOLLOWING MSGS ARE PART OF THE>, -
                              0051    80                      < $BRDCST TEST ... PLEASE IGNORE>
                              009A    81 EXIT_MSG:      STRING I,<NO MORE $BRDCST MSGS ... THANK >, -
                              009A    82                      <YOU FOR YOUR PATIENCE>
                              00D6    83 TERM_DATA:                               ; 250-CHARACTER MESSAGE
2F 58 41 56 20 53 4D 56 2F 58 41 56  00D6    84          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  00E2
2F 58 41 56 20 53 4D 56 2F 58 41 56  00EE    85          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  00FA
2F 58 41 56 20 53 4D 56 2F 58 41 56  0106    86          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  0112
2F 58 41 56 20 53 4D 56 2F 58 41 56  011E    87          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  012A
2F 58 41 56 20 53 4D 56 2F 58 41 56  0136    88          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  0142
2F 58 41 56 20 53 4D 56 2F 58 41 56  014E    89          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  015A
2F 58 41 56 20 53 4D 56 2F 58 41 56  0166    90          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  0172
2F 58 41 56 20 53 4D 56 2F 58 41 56  017E    91          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  018A
2F 58 41 56 20 53 4D 56 2F 58 41 56  0196    92          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  01A2
2F 58 41 56 20 53 4D 56 2F 58 41 56  01AE    93          .ASCII  %VAX/VMS VAX/VMS VAX/VMS %
20 53 4D 56 2F 58 41 56 20 53 4D 56  01BA
      41 56 20 53 4D 56 2F 58 41 56  01C6    94          .ASCII  %VAX/VMS VA%
                          00000000  01D0    95 ZERODESC:  .LONG   0                       ; ZERO LENGTH STRING DESCRIPTOR
                        000001D0'  01D4    96            .ADDRESS ZERODESC       ; ...........
                              01D8    97 OPDEV:         STRING  I,< OPA0>        ; OPER'S CONSOLE (SHOULD BE ON EVERY SYSTEM)
                              01E5    98 OPDEVLOG:      STRING  I,<SYSTST$OPER>  ; LOGICAL NAME FOR OPERATOR'S CONSOLE
```

```
          00000000   100          .PSECT   RWDATA,RD,WRT,NOEXE,LONG
00000008  0000   101 PRIVMASK:      .BLKQ    1                 ; ADDR OF PRIVILEGE MASK (IN PHD)
0000000A  0008   102 CTRSTRLEN:     .BLKW    1                 ; FAO CONTROL STRING LENGTH
          000A   103 FAOCTRSTR:    STRING  0,30                ; FAO CONTROL STRING
          0030   104 TERM_DESCR:                               ; TERMINAL DATA STRING DESCRIPTOR
00000034  0030   105                .BLKL    1                 ; LENGTH OF STRING
000000D6' 0034   106                .ADDRESS TERM_DATA         ; ADDRESS OF STRING
0000003A  0038   107 BRDLEN:        .BLKW    1                 ; LENGTH OF INTRO & EXIT BRDCST MSGS
          003A   108 BRDBUF:       STRING  0,80                ; BUFFER FOR INTRO & EXIT BRDCST MSGS
```

J 14

SATSSS08   SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page   5
V04-000   CONDITION TABLES   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
                0092    110             .SBTTL  CONDITION TABLES
                0092    111 ;
                0092    112 ;     ***** CONDITION TABLES FOR BRDCST SYSTEM SERVICE *****
                0092    113 ;
                0092    114       COND    1,NOTARG,<MESSAGE LENGTH>,-
                0092    115                   <NULL LENGTH>,-
                0092    116                   <MIN LENGTH>,-
                0092    117                   <AVG LENGTH>,-
                0092    118                   <MAX LENGTH>,-
                0092    119
  FA 50 01 00   00DF    120                   .BYTE       0,1,80,250
                00E3    121 ;
                00E3    122       COND    2,NOTARG,<MESSAGE RECIPIENT SET>,-
                00E3    123                   <ALL TERMINALS>,-
                00E3    124                   <ALL TERMINALS ALLOCATED TO PROCESSES>,-
                00E3    125                   <A SINGLE TERMINAL (BY DEVICE NAME)>,-
                00E3    126                   <A SINGLE TERMINAL (BY LOGICAL NAME)>,-
                00E3    127
     00000000'  0184    128                   .ADDRESS    0         ; ZERO ARGUMENT => ALL TERMINALS
     000001D0'  0188    129                   .ADDRESS    ZERODESC  ; ZERO LENGTH DESCR => ALL PROCESS TERMS
     000001D8'  018C    130                   .ADDRESS    OPDEV     ; OPERATOR'S CONSOLE
     000001E5'  0190    131                   .ADDRESS    OPDEVLOG  ; OPERATOR'S CONSOLE (BY LOG NAME)
                0194    132 ;
                0194    133       COND    3,NULL
                0195    134
                0195    135       COND    4,NULL
                0196    136
                0196    137       COND    5,NULL
                0197    138
     00000000   139             .PSECT  SATSSS08,RD,WRT,EXE
```

K 14

SATSSS08
V04-000

SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00
TM_SETUP, TM_CLEANUP   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   Page 6
                                                                                                    (1)

```
                    0000    141          .SBTTL  TM_SETUP, TM_CLEANUP
                    0000    142  ;++
                    0000    143  ; FUNCTIONAL DESCRIPTION:
                    0000    144  ;
                    0000    145  ;             TM_SETUP AND TM_CLEANUP ARE CALLED TO PERFORM
                    0000    146  ; REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                    0000    147  ; TEST MODULE EXECUTION.
                    0000    148  ;
                    0000    149  ; CALLING SEQUENCE:
                    0000    150  ;
                    0000    151  ;        BSBW TM_SETUP    BSBW TM_CLEANUP
                    0000    152  ;
                    0000    153  ; INPUT PARAMETERS:
                    0000    154  ;
                    0000    155  ;        NONE
                    0000    156  ;
                    0000    157  ; IMPLICIT INPUTS:
                    0000    158  ;
                    0000    159  ;        NONE
                    0000    160  ;
                    0000    161  ; OUTPUT PARAMETERS:
                    0000    162  ;
                    0000    163  ;        NONE
                    0000    164  ;
                    0000    165  ; IMPLICIT OUTPUTS:
                    0000    166  ;
                    0000    167  ;        TM_SETUP:  COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
                    0000    168  ;                   ALL PRIVILEGES ACQUIRED.
                    0000    169  ;
                    0000    170  ; COMPLETION CODES:
                    0000    171  ;
                    0000    172  ;        EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                    0000    173  ;
                    0000    174  ; SIDE EFFECTS:
                    0000    175  ;
                    0000    176  ;        SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
                    0000    177  ;        (VIA RSB) IF ERROR ENCOUNTERED.
                    0000    178  ;
                    0000    179  ;--
                    0000    180
                    0000    181
                    0000    182
                    0000    183  TM_SETUP::
              52  D4  0000    184          CLRL    R2                          ; INITIALIZE
              53  D4  0002    185          CLRL    R3                          ; .. CONDITION
              54  D4  0004    186          CLRL    R4                          ; .... TABLE
              55  D4  0006    187          CLRL    R5                          ; ...... INDEX
              56  D4  0008    188          CLRL    R6                          ; ........ REGISTERS
           FFF3'  30  000A    189          BSBW    MOD_MSG_PRINT               ; PRINT TEST MODULE BEGIN MSG
00000000'EF  00000000'EF  DE  000D    190          MOVAL   TEST_MOD_SUCC,TMD_ADDR  ; ASSUME END MSG WILL SHOW SUCCESS
   03  00  00000000'8F  F0  0018    191          INSV    #SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
           00000000'EF      0020
                         0025    192          MODE    TO,5$,KRNL                 ; KERNEL MODE TO ACCESS PHD
        59  00000000'9F  D0  0048    193          MOVL    @#CTL$GL_PHD,R9            ; GET PROCESS HEADER ADDRESS
           00000000'EF  69  DE  004F    194          MOVAL   PHD$Q_PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS
                         0056    195          MODE    FROM,5$ ; BACK TO USER MODE
                         0057    196          PRIV    ADD,ALL                    ; GET ALL PRIVILEGES
```

```
                                0077  197              $SETPRN_S TEST_MOD_NAME_D            ; SET PROCESS NAME
                                0084  198              SS_CHECK  NORMAL                     ; CHECK STATUS CODE RETURNED FROM SETPRN
                                00B2  199              $CRELOG_S LOGNAM=OPDEVLOG, EQLNAM=OPDEV, -
                                00B2  200                        TBLFLG=#LOG$C_PROCESS     ; CREATE LOG NAME FOR OPERATOR'S CONSOLE
                       2E 50 E8 00C9  201              BLBS    R0,10$                      ; KEEP GOING IF SUCCESS RETURN
                                00CC  202              SS_CHECK NORMAL                     ; OTHERWISE USE SS_CHECK TO TERMINATE MODULE
                                00FA  203 10$:
                                00FA  204              $GETMSG_S MSGID=#UETP$_TEXT,MSGLEN=CTRSTRLEN, -
                                00FA  205                        BUFADR=FAOCTRSTR          ; GET UETP$_TEXT MSG
                                0117  206              SS_CHECK NORMAL                     ; CHECK FOR NORMAL RETURN
 0000000A'EF   00000008'EF   3C 0145  207              MOVZWL  CTRSTRLEN,FAOCTRSTR         ; GET ACTUAL LEN OF MSG INTO DESCRIPTOR
                                0150  208              $FAO_S  CTRSTR=FAOCTRSTR, OUTLEN=BRDLEN, -
                                0150  209                        OUTBUF=BRDBUF, P1=#INTRO_MSG ; FORMAT INTRO MSG
                                016F  210              SS_CHECK NORMAL                     ; MAKE SURE IT WORKED
 0000003A'EF   00000038'EF   3C 019D  211              MOVZWL  BRDLEN,BRDBUF               ; GET ACTUAL BUFFER LEN INTO DESCRIPTOR
                                01A8  212              $BRDCST_S MSGBUF=BRDBUF             ; SEND INTRO MSG TO ALL TERMINALS
                                01BB  213              SS_CHECK NORMAL                     ; ... AND CHECK ITS RETURN
                          05 01E9  214              RSB                                 ; RETURN TO MAIN ROUTINE
                                01EA  215 TM_CLEANUP::
 0000003A'EF      50 8F   9A 01EA  216              MOVZBL  #80,BRDBUF                  ; MAKE SURE BUFFER HAS ITS MAX LENGTH
                                01F2  217              $FAO_S  CTRSTR=FAOCTRSTR, OUTLEN=BRDLEN, -
                                01F2  218                        OUTBUF=BRDBUF, P1=#EXIT_MSG ; FORMAT EXIT MSG
 0000003A'EF   00000038'EF   3C 0211  219              MOVZWL  BRDLEN,BRDBUF               ; GET ACTUAL BUFFER LENGTH INTO DESCRIPTOR
                                021C  220              $BRDCST_S MSGBUF=BRDBUF             ; SEND EXIT MSG TO ALL TERMINALS
                                022F  221              $DELLOG_S LOGNAM=OPDEVLOG, -         ; DELETE LOGICAL NAME CREATED EARLIER
                                022F  222                        TBLFLG=#LOG$C_PROCESS
                       FDBD'  30 0240  223              BSBW    MOD_MSG_PRINT               ; PRINT TEST MODULE END MSG
                          05 0243  224              RSB                                 ; RETURN TO MAIN ROUTINE
```

```
        0244  226              .SBTTL  CONDITION SUBROUTINES - SETUP AND CLEANUP
        0244  227     ;++
        0244  228     ; FUNCTIONAL DESCRIPTION:
        0244  229     ;
        0244  230     ;            CONDX AND CONDX_CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED
        0244  231     ; BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW
        0244  232     ; CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON
        0244  233     ; ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE
        0244  234     ; CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED
        0244  235     ; UP, IF NECESSARY, IN THE CONDX_CLEANUP SUBROUTINE. THIS INCLUDES,
        0244  236     ; ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO
        0244  237     ; OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO
        0244  238     ; VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE
        0244  239     ; (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
        0244  240     ;
        0244  241     ; CALLING SEQUENCE:
        0244  242     ;
        0244  243     ;     BSBW CONDX   BSBW CONDX_CLEANUP
        0244  244     ;        WHERE X = 1,2,3,4,5
        0244  245     ;
        0244  246     ; INPUT PARAMETERS:
        0244  247     ;
        0244  248     ;     CONFLICT = 0
        0244  249     ;
        0244  250     ; IMPLICIT INPUTS:
        0244  251     ;
        0244  252     ;     R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
        0244  253     ;        FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
        0244  254     ;
        0244  255     ; OUTPUT PARAMETERS:
        0244  256     ;
        0244  257     ;     CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
        0244  258     ;
        0244  259     ; IMPLICIT OUTPUTS:
        0244  260     ;
        0244  261     ;     R2,3,4,5,6 PRESERVED
        0244  262     ;
        0244  263     ; COMPLETION CODES:
        0244  264     ;
        0244  265     ;     NONE
        0244  266     ;
        0244  267     ; SIDE EFFECTS:
        0244  268     ;
        0244  269     ;     NONE
        0244  270     ;
        0244  271     ;--
        0244  272
        0244  273
        0244  274
        0244  275     COND1::
     05 0244  276         RSB                                    ; RETURN TO MAIN ROUTINE
        0245  277     COND1_CLEANUP::
     05 0245  278         RSB                                    ; RETURN TO MAIN ROUTINE
        0246  279     COND2::
     05 0246  280         RSB                                    ; RETURN TO MAIN ROUTINE
        0247  281     COND2_CLEANUP::
     05 0247  282         RSB                                    ; RETURN TO MAIN ROUTINE
```

```
        0248   283 COND3::
05      0248   284         RSB                                          ; RETURN TO MAIN ROUTINE
        0249   285 COND3_CLEANUP::
05      0249   286         RSB                                          ; RETURN TO MAIN ROUTINE
        024A   287 COND4::
05      024A   288         RSB                                          ; RETURN TO MAIN ROUTINE
        024B   289 COND4_CLEANUP::
05      024B   290         RSB                                          ; RETURN TO MAIN ROUTINE
        024C   291 COND5::
05      024C   292         RSB                                          ; RETURN TO MAIN ROUTINE
        024D   293 COND5_CLEANUP::
05      024D   294         RSB                                          ; RETURN TO MAIN ROUTINE
```

```
                              024E    296                    .SBTTL  FORM_CONDS
                              024E    297  ;++
                              024E    298  ; FUNCTIONAL DESCRIPTION:
                              024E    299  ;
                              024E    300  ;              FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                              024E    301  ; THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                              024E    302  ;
                              024E    303  ; CALLING SEQUENCE:
                              024E    304  ;
                              024E    305  ;       BSBW FORM_CONDS
                              024E    306  ;
                              024E    307  ; INPUT PARAMETERS:
                              024E    308  ;
                              024E    309  ;       NONE
                              024E    310  ;
                              024E    311  ; IMPLICIT INPUTS:
                              024E    312  ;
                              024E    313  ;       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                              024E    314  ;          FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                              024E    315  ;       FOR X = 1,2,3,4,5 :
                              024E    316  ;              CONDX_T - TITLE TEXT FOR CONDX TABLE
                              024E    317  ;              CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE
                              024E    318  ;              CONDX_C - CONTEXT OF THE CONDX TABLE
                              024E    319  ;              CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                              024E    320  ;
                              024E    321  ; OUTPUT PARAMETERS:
                              024E    322  ;
                              024E    323  ;       NONE
                              024E    324  ;
                              024E    325  ; IMPLICIT OUTPUTS:
                              024E    326  ;
                              024E    327  ;       NONE
                              024E    328  ;
                              024E    329  ; COMPLETION CODES:
                              024E    330  ;
                              024E    331  ;       NONE
                              024E    332  ;
                              024E    333  ; SIDE EFFECTS:
                              024E    334  ;
                              024E    335  ;       NONE
                              024E    336  ;
                              024E    337  ;--
                              024E    338
                              024E    339
                              024E    340
                              024E    341  FORM_CONDS::
                              024E    342          $FAO_S  MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                              026D    343                                          ; FORMAT CONDITIONS HEADER MSG
                    FD90' 30  026D    344          BSBW    OUTPUT_MSG              ; ... AND PRINT IT
                 14    00 91  0270    345          CMPB    #COND1_C,#NULL          ; IS CONDITION 1 NULL ?
                       03 12  0273    346          BNEQU   10$                     ; NO -- CONTINUE
                       00BF 31 0275   347          BRW     FORM_CONDSX             ; YES -- SUBROUTINE IS FINISHED
                              0278    348  10$:
   00000000'EF   00000092'EF DE 0278  349          MOVAL   COND1_T,MSG_A          ; SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
   00000000'EF   000000A2'EF42 D0 0283 350         MOVL    COND1_TAB[R2],MSG_B    ; SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
        00000000'EF   00 90   028F    351          MOVB    #CONDT_C,MSG_CTXT_     ; SAVE CONDITION 1 CONTEXT FOR FAO
                              0296    352          MOV_VAL COND1_C,CONDT_E[R2],MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
```

```
                        FD67'  30  0296   353           BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 1 MSG
                    14   00  91  0299   354           CMPB    #COND2_C,#NULL              ; IS CONDITION 2 NULL ?
                         03  12  029C   355           BNEQU   20$                         ; NO -- CONTINUE
                        0096  31  029E   356           BRW     FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
                              02A1   357  20$:
  00000000'EF   000000E3'EF  DE  02A1   358           MOVAL   COND2_T,MSG_A               ; SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO
  00000000'EF   000000FA'EF43  D0  02AC   359           MOVL    COND2_TAB[R3],MSG_B         ; SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO
       00000000'EF   00  90  02B8   360           MOVB    #COND2_C,MSG_CTXT           ; SAVE CONDITION 2 CONTEXT FOR FAO
                              02BF   361           MOV_VAL COND2_C,COND2_E[R3],MSG_DATA1 ; GIVE COND 2 DATA VALUE TO FAO
                        FD3E'  30  02BF   362           BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 2 MSG
                    14   14  91  02C2   363           CMPB    #COND3_C,#NULL              ; IS CONDITION 3 NULL ?
                         03  12  02C5   364           BNEQU   30$                         ; NO -- CONTINUE
                        006D  31  02C7   365           BRW     FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
                              02CA   366  30$:
  00000000'EF   00000194'EF  DE  02CA   367           MOVAL   COND3_T,MSG_A               ; SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO
  00000000'EF   00000194'EF44  D0  02D5   368           MOVL    COND3_TAB[R4],MSG_B         ; SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO
       00000000'EF   14  90  02E1   369           MOVB    #COND3_C,MSG_CTXT           ; SAVE CONDITION 3 CONTEXT FOR FAO
                              02E8   370           MOV_VAL COND3_C,COND3_E[R4],MSG_DATA1 ; GIVE COND 3 DATA VALUE TO FAO
                        FD15'  30  02E8   371           BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 3 MSG
                    14   14  91  02EB   372           CMPB    #COND4_C,#NULL              ; IS CONDITION 4 NULL ?
                         47  13  02EE   373           BEQLU   FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
  00000000'EF   00000195'EF  DE  02F0   374           MOVAL   COND4_T,MSG_A               ; SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO
  00000000'EF   00000195'EF45  D0  02FB   375           MOVL    COND4_TAB[R5],MSG_B         ; SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO
       00000000'EF   14  90  0307   376           MOVB    #COND4_C,MSG_CTXT           ; SAVE CONDITION 4 CONTEXT FOR FAO
                              030E   377           MOV_VAL COND4_C,COND4_E[R5],MSG_DATA1 ; GIVE COND 4 DATA VALUE TO FAO
                        FCEF'  30  030E   378           BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 4 MSG
                    14   14  91  0311   379           CMPB    #COND5_C,#NULL              ; IS CONDITION 5 NULL ?
                         21  13  0314   380           BEQLU   FORM_CONDSX                 ; YES -- SUBROUTINE IS FINISHED
  00000000'EF   00000196'EF  DE  0316   381           MOVAL   COND5_T,MSG_A               ; SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO
  00000000'EF   00000196'EF46  D0  0321   382           MOVL    COND5_TAB[R6],MSG_B         ; SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO
       00000000'EF   14  90  032D   383           MOVB    #COND5_C,MSG_CTXT           ; SAVE CONDITION 5 CONTEXT FOR FAO
                              0334   384           MOV_VAL COND5_C,COND5_E[R6],MSG_DATA1 ; GIVE COND 5 DATA VALUE TO FAO
                        FCC9'  30  0334   385           BSBW    WRITE_MSG2                  ; FORMAT AND WRITE CONDITION 5 MSG
                              0337   386  FORM_CONDSX:
                         05  0337   387           RSB                                     ; RETURN TO CALLER
```

```
0338   389              .SBTTL  VERIFY
0338   390      ;++
0338   391      ; FUNCTIONAL DESCRIPTION:
0338   392      ;
0338   393      ;        VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION
0338   394      ; TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR
0338   395      ; COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS
0338   396      ; SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE
0338   397      ; ($BRDCST). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED
0338   398      ; BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS
0338   399      ; AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF
0338   400      ; COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN
0338   401      ; ERR_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,
0338   402      ; THROUGH THE SS_CHECK MACRO); ERR_EXIT SETS EFLAG TO NON-ZERO,
0338   403      ; PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.
0338   404      ; WHEN ERR_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,
0338   405      ; AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.
0338   406      ;
0338   407      ; CALLING SEQUENCE:
0338   408      ;
0338   409      ;        BSBW VERIFY
0338   410      ;
0338   411      ; INPUT PARAMETERS:
0338   412      ;
0338   413      ;        NONE
0338   414      ;
0338   415      ; IMPLICIT INPUTS:
0338   416      ;
0338   417      ;        R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0338   418      ;            FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0338   419      ;        FOR X = 1,2,3,4,5 :
0338   420      ;                CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0338   421      ;                  TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0338   422      ;                  ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0338   423      ;                  FOR CONDX_E.
0338   424      ;
0338   425      ; OUTPUT PARAMETERS:
0338   426      ;
0338   427      ;        NONE
0338   428      ;
0338   429      ; IMPLICIT OUTPUTS:
0338   430      ;
0338   431      ;        VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,
0338   432      ;        IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING
0338   433      ;        ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA
0338   434      ;        AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED
0338   435      ;        ERRORS.
0338   436      ;
0338   437      ; COMPLETION CODES:
0338   438      ;
0338   439      ;        EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0338   440      ;
0338   441      ; SIDE EFFECTS:
0338   442      ;
0338   443      ;        SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
0338   444      ;        (VIA RSB) IF ERROR ENCOUNTERED.
0338   445      ;
```

SATSSS08
V04-000

E 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 13
VERIFY   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
                                        0338   446  ;--
                                        0338   447
                                        0338   448
                                        0338   449
                                        0338   450  VERIFY::
                  00000000'EF   95      0338   451          TSTB    CFLAG              ; SHOULD CONDITIONS BE PRINTED ?
                           03   13      033E   452          BEQL    5$                 ; NO -- CONTINUE
                         FF0B   30      0340   453          BSBW    FORM_CONDS         ; YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                        0343   454  5$:
  00000030'EF    000000DF'EF42   9A    0343   455          MOVZBL  COND1_E[R2],TERM_DESCR  ; GET LENGTH INTO DESCRIPTOR
           59    00000184'EF43   DO    034F   456          MOVL    COND2_E[R3],R9     ; GET DEVNAM ARG INTO REG FOR INDIRECT REF
                                        0357   457  ;
                                        0357   458  ; ****** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE ******
                                        0357   459  ;
                                        0357   460          $BRDCST_S MSGBUF=TERM_DESCR, DEVNAM=(R9)
                  00000000'8F   50  D1  036A   461          CMPL    R0,#SS$_NORMAL     ; CODE RECEIVED = CODE EXPECTED ?
                           61   13      0371   462          BEQLU   VERIFYX            ; YES -- CONTINUE
  00000000'EF    00000000'8F   DO      0373   463          MOVL    #SS$_NORMAL,EXPV   ; NO -- LOAD UP EXPECTED AND ...
  00000000'EF           50   DO      037E   464          MOVL    R0,RECV            ; ... RECEIVED VALUES, THEN EXIT
                                        0385   465          ERR_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM BRDCST>
                                        03D4   466  VERIFYX:
                           05      03D4   467          RSB                        ; RETURN TO CALLER
```

SATSSS08
V04-000

F 15
SATS SYSTEM SERVICE TESTS $BRDCST (SUCC 16-SEP-1984 00:48:01 VAX/VMS Macro V04-00   Page 14
VFY_CLEANUP   5-SEP-1984 04:30:06 [UETPSY.SRC]SATSSS08.MAR;1   (1)

```
03D5    469           .SBTTL  VFY_CLEANUP
03D5    470  ;++
03D5    471  ; FUNCTIONAL DESCRIPTION:
03D5    472  ;
03D5    473  ;          VFY_CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
03D5    474  ; EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY_CLEANUP MUST
03D5    475  ; ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
03D5    476  ; ERROR IS FOUND). ALSO, VFY_CLEANUP MAY ISSUE SS_CHECK OR ERR_EXIT
03D5    477  ; ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED
03D5    478  ; IN THE EVENT THAT VFY_CLEANUP IS CALLED DURING ERROR PROCESSING,
03D5    479  ; WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
03D5    480  ; POSSIBLY DISCOVERING A SECOND ERROR.
03D5    481  ;
03D5    482  ; CALLING SEQUENCE:
03D5    483  ;
03D5    484  ;     BSBW VFY_CLEANUP
03D5    485  ;
03D5    486  ; INPUT PARAMETERS:
03D5    487  ;
03D5    488  ;     NONE
03D5    489  ;
03D5    490  ; IMPLICIT INPUTS:
03D5    491  ;
03D5    492  ;     R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
03D5    493  ;       FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
03D5    494  ;     FOR X = 1,2,3,4,5 :
03D5    495  ;          CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
03D5    496  ;           TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
03D5    497  ;           ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
03D5    498  ;           FOR CONDX_E.
03D5    499  ;
03D5    500  ; OUTPUT PARAMETERS:
03D5    501  ;
03D5    502  ;     NONE
03D5    503  ;
03D5    504  ; IMPLICIT OUTPUTS:
03D5    505  ;
03D5    506  ;     NONE
03D5    507  ;
03D5    508  ; COMPLETION CODES:
03D5    509  ;
03D5    510  ;     EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
03D5    511  ;
03D5    512  ; SIDE EFFECTS:
03D5    513  ;
03D5    514  ;     SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
03D5    515  ;     (VIA RSB) IF ERROR ENCOUNTERED.
03D5    516  ;
03D5    517  ;--
03D5    518
03D5    519
03D5    520
03D5    521  VFY_CLEANUP::
05  03D5    522           RSB                              ; RETURN TO CALLER
03D6    523           .END
```

```
$$$$            = 0000038F R    04      FAOCTRSTR           0000000A R    03
$$$CHARS        = 0000002A              FAO_DESC            ********    X   04
$$$CHARS1       = 0000000D              FAO_LEN             ********    X   04
$$$CHARS2       = 00000024              FORM_CONDS          0000024E RG   04
$$$CHARS3       = 00000022              FORM_CONDSX         00000337 R    04
$$$CHARS4       = 00000023              INTRO_MSG           00000051 R    02
$$$CHARS5       = 00000000              LOG$C_PROCESS     = 00000002
$$$COND_A       = 00000003              LONG              = 00000004  G
$$$STRINGS      = 00000001              MOD_MSG_CODE        ********    X   04
$$$STRINGS2     = 00000005              MOD_MSG_PRINT       ********    X   04
$$T1            = 00000000              MSGT_INP_CTL        00000019 R    02
$$T2            = 00000004              MSG3_ERR_CTL        00000039 RG   02
BRDBUF            0000003A R    03      MSG_A               ********    X   04
BRDLEN            00000038 R    03      MSG_B               ********    X   04
BYTE            = 00000001  G           MSG_CTXT            ********    X   04
CFLAG             ********    X   04    NOTARG            = 00000000  G
CHMRTN            ********    X   04    NULL              = 00000014  G
CHM_CONT          ********    X   04    OPDEV               000001D8 R    02
COMP_SC           ********    X   04    OPDEVLOG            000001E5 R    02
CONDT             00000244 RG   04      OUTPUT_MSG          ********    X   04
COND1_C         = 00000000              PCV                 ********    X   04
COND1_CLEANUP     00000245 RG   04      PHD$Q_PRIVMSK     = 00000000
COND1_E           000000DF R    03      PRIVMASK            00000000 R    03
COND1_H           000000A1 RG   03      PRIV_ARGS         = 00000002
COND1_T           00000092 R    03      PROCESS_ERR         ********    X   04
COND1_TAB         000000A2 R    03      QUAD              = 00000008  G
COND2             00000246 RG   04      RECV                ********    X   04
COND2_C         = 00000000              REST_REGS           ********    X   04
COND2_CLEANUP     00000247 RG   04      SAVE_REGS           ********    X   04
COND2_E           00000184 R    03      SHR$R_SHRDEF      = 00000001
COND2_H           000000F9 RG   03      SHR$_TEXT         = 00001130
COND2_T           000000E3 R    03      SS$_NORMAL          ********    X   04
COND2_TAB         000000FA R    03      SUCCESS             ********    X   04
COND3             00000248 RG   04      SYS$BRDCST          ********   GX   04
COND3_C         = 00000014              SYS$CMKRNL          ********   GX   04
COND3_CLEANUP     00000249 RG   04      SYS$CRELOG          ********   GX   04
COND3_H           00000194 RG   03      SYS$DELLOG          ********   GX   04
COND3_T           00000194 R    03      SYS$FAO             ********    X   04
COND3_TAB         00000194 R    03      SYS$GETMSG          ********   GX   04
COND4             0000024A RG   04      SYS$SETPRN          ********   GX   04
COND4_C         = 00000014              SYS$SETPRV          ********   GX   04
COND4_CLEANUP     0000024B RG   04      TERM_DATA           000000D6 R    02
COND4_H           00000195 RG   03      TERM_DESCR          00000030 R    03
COND4_T           00000195 R    03      TESTNUM             ********    X   04
COND4_TAB         00000195 R    03      TEST_MOD_NAME       00000000 RG   02
COND5             0000024C RG   04      TEST_MOD_NAME_D     00000009 R    02
COND5_C         = 00000014              TEST_MOD_SUCC_      ********    X   04
COND5_CLEANUP     0000024D RG   04      TMD_ADDR            ********    X   04
COND5_H           00000196 RG   03      TM_CLEANUP          000001EA RG   04
COND5_T           00000196 R    03      TM_SETUP            00000000 RG   04
COND5_TAB         00000196 R    03      UETP$_TEXT        = 00741133
CTL$GL_PHD        ********    X   04    VERIFY              00000338 RG   04
CTRSTRLEN         00000008 R    03      VERIFYX             000003D4 R    04
DESC            = 00000010  G           VFY_CLEANUP         000003D5 RG   04
EFLAG             ********    X   04    WORD              = 00000002  G
EXIT_MSG          0000009A R    02      WRITE_MSG2          ********    X   04
EXPV              ********    X   04    ZERODESC            000001D0 R    02
```

```
                                            +------------------+
                                            ! Psect synopsis !
                                            +------------------+

PSECT name                  Allocation            PSECT No.   Attributes
----------                  ----------            ---------   ----------
.  ABS  .                   00000000  (    0.)   00 (   0.)   NOPIC   USR   CON   ABS   LCL  NOSHR  NOEXE  NORD   NOWRT  NOVEC  BYTE
$ABS$                       00000000  (    0.)   01 (   1.)   NOPIC   USR   CON   ABS   LCL  NOSHR    EXE   RD     WRT   NOVEC  BYTE
RODATA                      000001F8  (  504.)   02 (   2.)   NOPIC   USR   CON   REL   LCL  NOSHR  NOEXE   RD   NOWRT  NOVEC  LONG
RWDATA                      00000197  (  407.)   03 (   3.)   NOPIC   USR   CON   REL   LCL  NOSHR  NOEXE   RD     WRT   NOVEC  LONG
SATSSS08                    000003D6  (  982.)   04 (   4.)   NOPIC   USR   CON   REL   LCL  NOSHR    EXE   RD     WRT   NOVEC  BYTE

                                        +--------------------------+
                                        ! Performance indicators !
                                        +--------------------------+

Phase                    Page faults   CPU Time        Elapsed Time
-----                    -----------   --------        ------------
Initialization                   35   00:00:00.06      00:00:00.28
Command processing              132   00:00:00.62      00:00:01.72
Pass 1                          266   00:00:07.80      00:00:15.28
Symbol table sort                 0   00:00:00.61      00:00:00.84
Pass 2                          110   00:00:01.95      00:00:04.26
Symbol table output              14   00:00:00.10      00:00:00.13
Psect synopsis output             2   00:00:00.03      00:00:00.03
Cross-reference output            0   00:00:00.00      00:00:00.00
Assembler run totals            561   00:00:11.18      00:00:22.55
```

The working set limit was 1500 pages.
40969 bytes (81 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 431 non-local and 26 local symbols.
523 source lines were read in Pass 1, producing 23 object records in Pass 2.
41 pages of virtual memory were used to define 31 macros.

```
                                        +------------------------------+
                                        ! Macro library statistics !
                                        +------------------------------+

Macro library name                            Macros defined
------------------                            --------------
_$255$DUA28:[SHRLIB]UETP.MLB;1                       10
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                        2
_$255$DUA28:[SYSLIB]STARLET.MLB;2                    16
TOTALS (all libraries)                              28
```

806 GETS were required to define 28 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:SATSSS08/OBJ=OBJ$:SATSSS08 MSRC$:SATSSS08/UPDATE=(ENH$:SATSSS08)+EXECML$/LIB+SHRLIB$:UETP/LIB